You are given an array of numbers. Let us denote the array with $A[]$. Your task is very simple. You need to find the value returned by the function fun $(A)$.

```
fun(A)
    sum = 0
    for i = 1 to A.length
        for j = i+1 to A.length
            sum = sum + Floor((A[i]+A[j])/(A[i]*A[j]))
    return sum
```

In short, this function takes all distinct pairs of indexes from the array and adds the value $\left\lfloor\frac{A[i]+A[j]}{A[i] \times A[j]}\right\rfloor$ to the sum. Your task is to find the sum.

Note: $\left\lfloor\frac{A}{B}\right\rfloor$ is the integer division function.

## Input Format

The first line contains $T$, the number of test cases to follow.
Each test case contains two lines: the first line contains $N$, the size of the array, and the second line contains $N$ integers separated by spaces.

## Output Format

The output should contain exactly $T$ lines where the $i^{\text {th }}$ line contains the answer for the $i^{\text {th }}$ test case.

## Constraints

$1 \leq T \leq 15$
$1 \leq N \leq 2 \times 10^{5}$
$1 \leq$ Sum of $N$ over all test cases $\leq 2 \times 10^{5}$
$1 \leq A[i] \leq 10^{9}$

## Sample Input

```
2
3
4 2
3
1 4 1
```


## Sample Output

## Explanation

First Test Case: $\left\lfloor\frac{6}{8}\right\rfloor+\left\lfloor\frac{7}{12}\right\rfloor+\left\lfloor\frac{5}{6}\right\rfloor=0$
Second Test Case: $\left\lfloor\frac{5}{4}\right\rfloor+\left\lfloor\frac{2}{1}\right\rfloor+\left\lfloor\frac{5}{4}\right\rfloor=4$

